

Fig.1

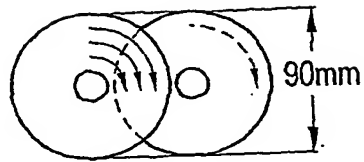


Fig.2

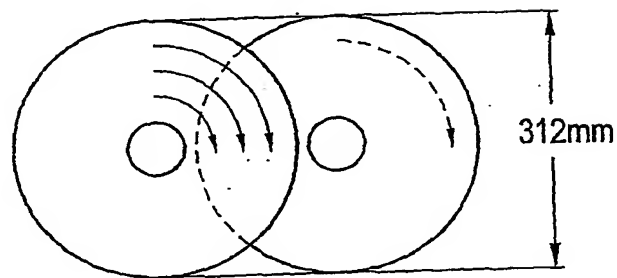
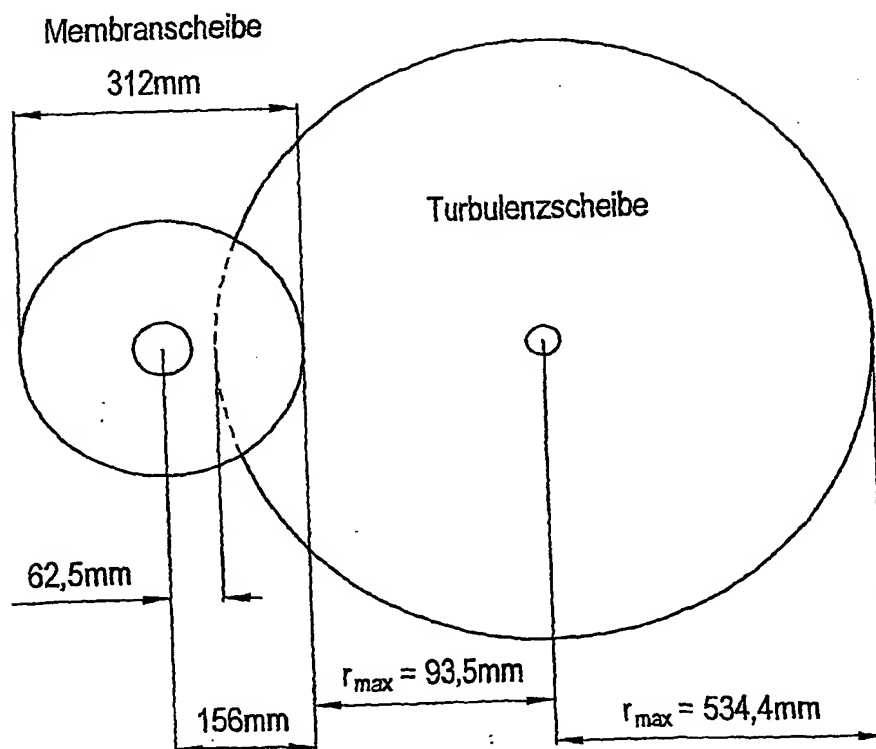


Fig.3



Membranscheibe ϕ 312mm

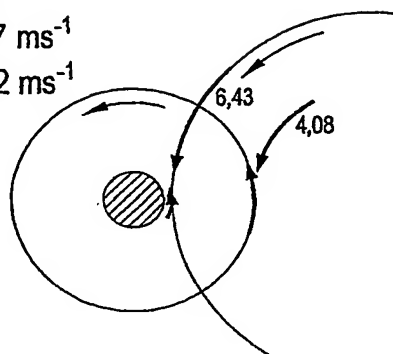
$$n = 4 \text{ s}^{-1}$$

$$V_{\min} = 1,57 \text{ ms}^{-1}$$

$$V_{\max} = 3,92 \text{ ms}^{-1}$$

$$\Delta V = 8 \text{ m/s}$$

Fig.4



Turbulenzscheibe

$$n = 4$$

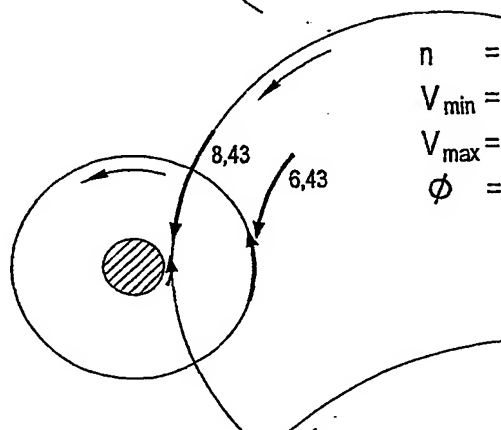
$$V_{\min} = 4,08 \text{ ms}^{-1}$$

$$V_{\max} = 6,43 \text{ ms}^{-1}$$

$$\phi = 512 \text{ mm}$$

$$\Delta V = 10 \text{ m/s}$$

Fig.5



$$n = 3,4$$

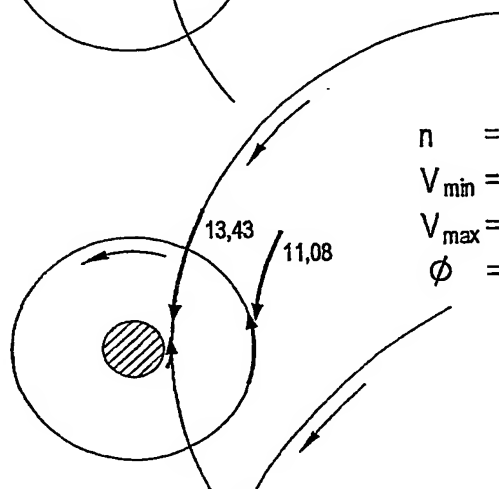
$$V_{\min} = 6,43 \text{ ms}^{-1}$$

$$V_{\max} = 8,43 \text{ ms}^{-1}$$

$$\phi = 788 \text{ mm}$$

$$\Delta V = 15 \text{ m/s}$$

Fig.6



$$n = 4$$

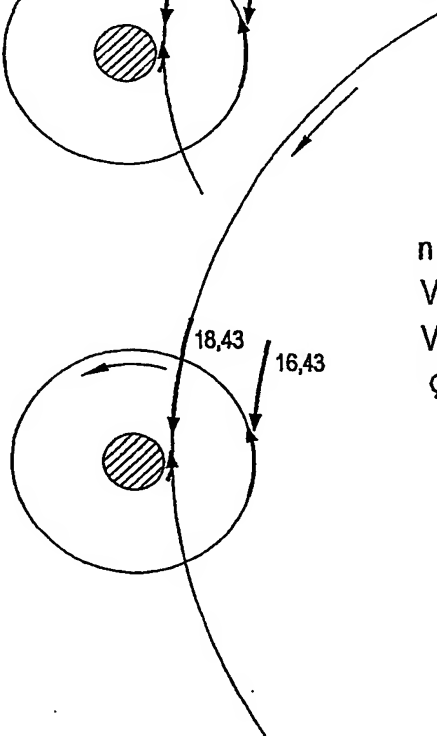
$$V_{\min} = 11,08 \text{ ms}^{-1}$$

$$V_{\max} = 13,43 \text{ ms}^{-1}$$

$$\phi = 1070 \text{ mm}$$

$$\Delta V = 20 \text{ m/s}$$

Fig.7



$$n = 3,4$$

$$V_{\min} = 16,43 \text{ ms}^{-1}$$

$$V_{\max} = 18,43 \text{ ms}^{-1}$$

$$\phi = 1724 \text{ mm}$$

Beispiel für praktisch Anwendung

Forderungen :

$p_z = 0,15 \text{ bar}$

$\Delta V = 10 \text{ ms}^{-1}$

Membranscheibe : $\phi = 312 \text{ mm}$

$n = 4 \text{ s}^{-1}$

$V_{\min} = 1,57 \text{ ms}^{-1}$

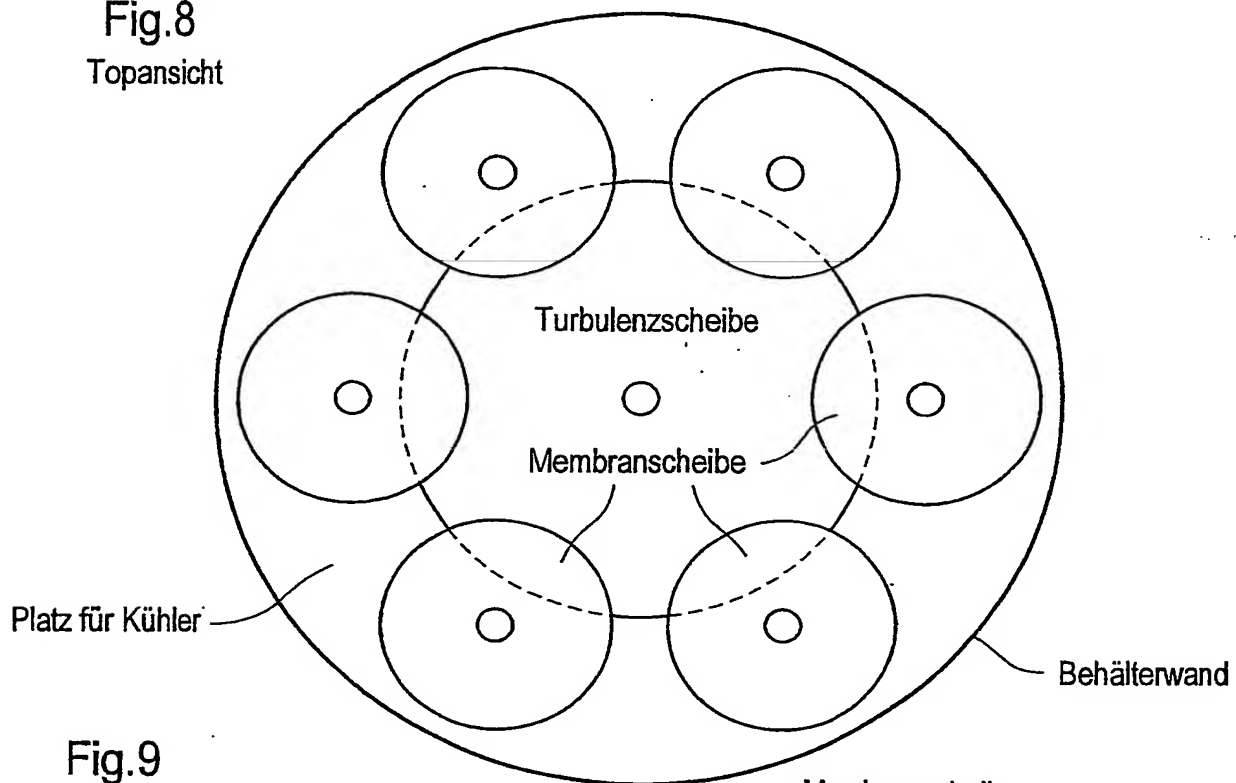
$V_{\max} = 3,92 \text{ ms}^{-1}$

Turbulenzscheibe : $\phi = 671 \text{ mm}$

$n = 4 \text{ s}^{-1}$

$V_{\min} = 6,08 \text{ ms}^{-1}$

$V_{\max} = 8,43 \text{ ms}^{-1}$

Fig.8
TopansichtFig.9
Seitenansicht